

**ABSTRACT OF THE DISCLOSURE****A NOVEL HUMAN PYROPHOSPHATASE**

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The present invention provides a human pyrophosphatase (HPYP) and polynucleotides which identify and encode HPYP. The invention also provides genetically engineered expression vectors and host cells comprising the nucleic acid sequences encoding HPYP and a method for producing HPYP. The invention also provides for use of HPYP and agonists, antibodies, or antagonists specifically binding HPYP, in the prevention and treatment of cancer and inflammatory diseases. Additionally, the invention provides for the use of antisense molecules to polynucleotides encoding HPYP for the treatment of diseases associated with the expression of HPYP. The invention also provides diagnostic assays which utilize the polynucleotide, or fragments or the complement thereof, and antibodies specifically binding HPYP.

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